



About Doe Run



History Mining Smelting Recycling Subsidiaries

The Mining Division of The Doe Run Company is headquartered in Viburnum, Missouri, about 100 miles southwest of St. Louis. Doe Run operations in the New Lead Belt are a showcase of modern mining and milling technology. Gaining a foothold in the New Lead Belt in 1955, St. Joe and Homestake served as leaders in development and testing of mine/mill equipment and techniques such as pillar control systems, all-hydraulic drills, trackless mining systems, highly compact automated mills, and noise control systems. Doe Run continues this quest for constant improvement.

Doe Run's mines are polymetallic orebodies which are mined in room and pillar fashion on one level in the orebody. Ore containing lead, zinc, and copper is drilled and blasted then loaded by front-end loaders into trucks. The ore is either crushed underground and hoisted to the surface through an ore shaft or brought directly to the surface for primary crushing and further processing at the mill.



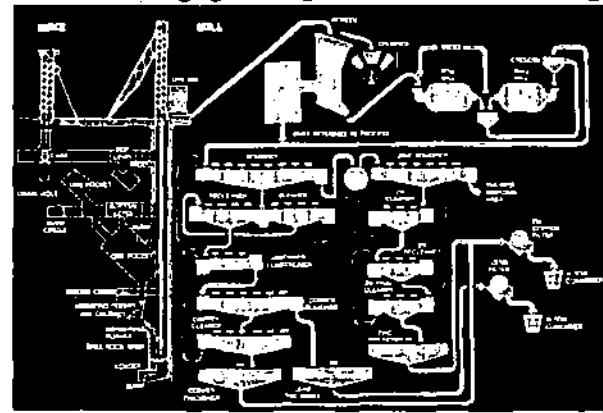
Rubber-tired loaders scoop up the ore, then load it into 50 ton vehicles for hauling to the shaft, for hoisting to the surface and the mill.

aep Site: Herculaneum
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The Mills: State-Of-The-Art Automation

Doe Run operates three mills in Southeast Missouri with an aggregate production capacity of 30,000 tons of ore per day. The mills incorporate the most modern design concepts, such as on-line analytical instruments to optimize recovery of metal values from the ore. Doe Run's compact mill design promotes one-man operation and features a large central control room overlooking the entire sequence of mill operations: crushing, grinding, flotation and filtering.

The coarse crushed ore from the mines contains an average of 5% lead, 1% zinc and 0.5% copper. after the raw ore is screened, crushed and ground at the mills, it is chemically treated in a flotation process to separate metal-containing mineral from the waste rock (tailings) and from each other. The resulting lead concentrates are transported to the Herculaneum smelter for conversion into refined lead metal.



Flow of the mining and milling process.

Lead concentrates produced at Doe Run's mills represent the largest single source of lead concentrates in the United States.

Zinc, copper and silver are recovered from the orebody and sold to other firms which have

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Zinc, copper and silver are recovered from the orebody and sold to other firms which have the flexibility to treat them.

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